

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) An ignition coil for an internal combustion engine comprising:

a primary winding ~~supporting~~ supported by a substantially cylindrical primary coil base;[[,]]

a low voltage connection area for ~~the~~ connection of the primary winding to a low voltage;[[,]]

a secondary winding that is inductively coupled with the primary winding and that is positioned on a substantially cylindrical secondary coil base to provide a high voltage for a spark plug of the internal combustion engine;[[,]]

wherein the primary coil base and the secondary coil base are concentrically positioned relative to one another, and a high voltage connection area, in which the secondary winding contacts the spark plug;[[,]]

wherein an electrically conductive, substantially cylinder formed layer with mechanical dampening properties is located within an annular space defined by the outermost winding of the two windings;[[,]] and

wherein the electrically conductive layer is formed as a sandwich structure comprising at least two partial layers with a intermediate layer with mechanical dampening characteristics lying therebetween.

2. (Currently Amended) An ignition coil for an internal combustion engine in accordance with claim 1, wherein the electrically conductive layer is located in the ~~an~~ annular space located between the primary winding and the secondary winding, which surrounds the innermost winding of the two windings.

3. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 1, wherein the electrically conductive layer surrounds a magnetic core disposed within the innermost winding of the two windings.

4. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 1, wherein at least one of the partial layers is formed as a foil.

5. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 1, wherein the intermediate layer is electrically conductive.

6. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 5, wherein the electrically conductive intermediate layer is electrically coupled with the ground of the ignition coil.

7. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 1, wherein the electrically conductive layer includes a slot running in the lengthwise direction of the ignition coil.

8. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 4, wherein the foil includes an arrangement of openings at regular intervals, in particular in the form of a lattice net.

9. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 1, wherein the electrically conductive layer is roll formed from a flat material, such that an overlapping of the material occurs at the adjoinment area.

10. (Currently Amended) An ignition coil for an internal combustion engine in accordance with claim 1, wherein ~~the~~ contact of the electrically conductive layer with one of the two windings is achieved through a separate contact means, in particular a supply lead, which the electrically conductive layer and the corresponding winding enclose.

11. (Previously Presented) An ignition coil for an internal combustion engine in accordance with claim 1, wherein the contact of the electrically conductive layer with one of the two windings is achieved through direct contact of a conductive portion of the layer with an un-insulated portion of the corresponding winding.

12. (New) The ignition coil of Claim 1, wherein the intermediate layer of the electrically conductive layer is different than the two partial layers.

13. (New) The ignition coil of Claim 12, wherein the electrically conductive layer is between the primary winding and the secondary winding.

14. (New) An ignition coil for an internal combustion engine comprising:

- a primary winding supported by a substantially cylindrical primary coil base;
- a low voltage connection area configured for connection of the primary winding to a low voltage source;
- a secondary winding inductively coupled with the primary winding and positioned on a substantially cylindrical secondary coil base to provide high voltage for a spark plug of the internal combustion engine, the primary coil base and the secondary coil base are concentrically positioned relative to one another;
- a high voltage connection area where the secondary winding contacts the spark plug; and
- an electrically conductive layer between the primary winding and the secondary winding, the electrically conductive layer is substantially cylindrical, located within an annular space defined by the primary winding, and includes:
 - an inner layer;
 - an outer layer; and
 - an intermediate layer between the inner layer and the outer layer, the intermediate layer is different than the inner layer and the outer layer, and the intermediate layer includes mechanical dampening characteristics.

15. (New) The ignition coil of Claim 14, further comprising a cylindrical magnetic core that is surrounded by the secondary winding and the electrically conductive layer.

16. (New) The ignition coil of Claim 14, wherein the electrically conductive layer includes a slot running in a lengthwise direction of the ignition coil.

17. (New) The ignition coil of Claim 14, wherein the electrically conductive layer is roll formed from a flat material.

18. (New) An ignition coil for an internal combustion engine comprising:

- a cylindrical magnetic core;
- a secondary winding surrounding the cylindrical magnetic core, the secondary winding supported by a secondary base;
- a primary winding surrounding the secondary winding and supported by a primary base;
- a cylindrical, electrically conductive layer between the primary winding and the secondary winding in an annular space defined by the primary winding, the electrically conductive layer including:
 - an inner layer;
 - an outer layer; and
 - an intermediate layer between the inner layer and the outer layer, the intermediate layer is different than the inner layer and the outer layer, and the intermediate layer includes mechanical dampening characteristics; and
- an outer sleeve surrounding each of the cylindrical magnetic core, the secondary winding, the primary winding, and the cylindrical, electrically conductive layer.

19. (New) The ignition coil of Claim 18, wherein the intermediate layer includes conductive particles.

20. (New) The ignition coil of Claim 18, wherein the electrically conductive layer includes a slot running in a lengthwise direction of the ignition coil.